

SEQUENCE LISTING

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<120> Novel Component of von Hippel-Lindau Tumor Suppressor
 Complex and SCF Ubiquitin Ligase

<130> 021044-004600US

<140> US 09/914,324
 <141> Not yet assigned

<150> US 60/121,787
 <151> 1999-02-26

<150> WO PCT/US00/04838
 <151> 2000-02-25

<160> 12

<170> PatentIn Ver. 2.1

<210> 1
 <211> 108
 <212> PRT
 <213> Homo sapiens

<220>
 <223> human ring box protein 1 (Rbx1)

<400> 1
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 1 5 10 15
 Ala Gly Lys Lys Arg Phe Glu Val Lys Lys Trp Asn Ala Val Ala Leu
 20 25 30
 Trp Ala Trp Asp Ile Val Val Asp Asn Cys Ala Ile Cys Arg Asn His
 35 40 45
 Ile Met Asp Leu Cys Ile Glu Cys Gln Ala Asn Gln Ala Ser Ala Thr
 50 55 60
 Ser Glu Glu Cys Thr Val Ala Trp Gly Val Cys Asn His Ala Phe His
 65 70 75 80
 Phe His Cys Ile Ser Arg Trp Leu Lys Thr Arg Gln Val Cys Pro Leu
 85 90 95
 Asp Asn Arg Glu Trp Glu Phe Gln Lys Tyr Gly His
 100 105

<210> 2
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 <212> PRT
 <213> Saccharomyces cerevisiae

<220>

<223> yeast ring box protein 1 (Rbx1)

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 20 25 30

Lys Arg Phe Glu Ile Lys Lys Trp Thr Ala Val Ala Phe Trp Ser Trp
 35 40 45

Asp Ile Ala Val Asp Asn Cys Ala Ile Cys Arg Asn His Ile Met Glu
 50 55 60

Pro Cys Ile Glu Cys Gln Pro Lys Ala Met Thr Asp Thr Asp Asn Glu
 65 70 75 80

Cys Val Ala Ala Trp Gly Val Cys Asn His Ala Phe His Leu His Cys
 85 90 95

Ile Asn Lys Trp Ile Lys Thr Arg Asp Ala Cys Pro Leu Asp Asn Gln
 100 105 110

Pro Trp Gln Leu Ala Arg Cys Gly Arg
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<211> 508

<212> DNA

<213> Homo sapiens

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<222> (7)..(333)

<223> Rbx1

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 gttgataact gtgccatctg caggaaccac attatggatc tttgcataga atgtcaagct 180
 aaccaggcgt ccgctacttc agaagagtgt actgtcgcat ggggagtcctg taaccatgct 240
 tttcacttcc actgcatctc tcgctggctc aaaacacgac aggtgtgtcc attggacaac 300
 agagagtggg aattccaaaa gtatgggcac taggaaaaga cttcttccat caagcttaat 360
 tgttttgtaa ttcatttaat tgactttccc tgctgttacc taattacaaa ttggatggaa 420
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<212> DNA

<213> Saccharomyces cerevisiae

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<222> (4)..(369)

<223> Rbx1

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 tggaccgcag tggcgttttg gtcatgggat atagctgttg acaactgtgc tatttgcagg 180
 aaccatataa tggaaccatg cattgaatgc cagccaaagg ccatgacgga cactgataat 240
 gaatgtgtag cagcctgggg tgtctgtaat cacgctttcc atttgactg tattaataaa 300
 tggatcaaga caagagacgc atgcccatta gataaccaac cttggcagtt agcaagatgc 360
 ggtaggtgaa aaaatgaatt gcccgtaaac atttaaataca taccgaggta gaaggattat 420
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 <223> Rbx1

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 gggacattgt gggtgataac tgtgccatct gcaggaacca cattatggat ctttgtatcg 180
 aatgtcaggc caaccaggcg tcagctactt ccgaagagtg tacggttgca tggggagtc 240
 gcaaccatgc ttttcatttc cactgcatct ctcgatggct caaaacgagg caggtgtgtc 300
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 <213> Drosophila melanogaster

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 1 5 10 15
 Gly Asp Lys Lys Arg Phe Glu Val Lys Lys Trp Asn Ala Val Ala Leu
 20 25 30
 Trp Ala Trp Asp Ile Val Val Asp Asn Cys Ala Ile Cys Arg Asn His
 35 40 45
 Ile Met Asp Leu Cys Ile Glu Cys Gln Ala Asn Gln Ala Ser Ala Thr
 50 55 60
 Ser Glu Glu Cys Thr Val Ala Trp Gly Val Cys Asn His Ala Phe His
 65 70 75 80
 Phe His Cys Ile Ser Arg Trp Leu Lys Thr Arg Gln Val Cys Pro Leu
 85 90 95

Asp Asn Arg Glu Trp Asp Phe Gln Lys Tyr Gly His
 100 105

<210> 7

<211> 110

<212> PRT

<213> *Caenorhabditis elegans*

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<223> *Caenorhabditis elegans* ring box protein 1 (Rbx1)

<400> 7

Met Ala Gln Ala Ser Asp Ser Thr Ala Met Glu Val Glu Glu Ala Thr
 1 5 10 15

Asn Gln Thr Val Lys Lys Arg Phe Glu Val Lys Lys Trp Ser Ala Val
 20 25 30

Ala Leu Trp Ala Trp Asp Ile Gln Val Asp Asn Cys Ala Ile Cys Arg
 35 40 45

Asn His Ile Met Asp Leu Cys Ile Glu Cys Gln Ala Asn Gln Ala Ala
 50 55 60

Gly Leu Lys Asp Glu Cys Thr Val Ala Trp Gly Asn Cys Asn His Ala
 65 70 75 80

Phe His Phe His Cys Ile Ser Arg Trp Leu Lys Thr Arg Gln Val Cys
 85 90 95

Pro Leu Asp Asn Arg Glu Trp Glu Phe Gln Lys Tyr Gly His
 100 105 110

<210> 8

<211> 18

<212> PRT

<213> *Saccharomyces cerevisiae*

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<223> Anaphase-Promoting Complex subunit APC11 sequence

<400> 8

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His Ile

<210> 9

<211> 69

<212> PRT

<213> *Saccharomyces cerevisiae*

<220>

<223> Anaphase-Promoting Complex subunit APC11 sequence

<400> 9

Asp Glu Asp Val Cys Gly Ile Cys Arg Ala Ser Tyr Asn Gly Thr Cys
 1 5 10 15

Pro Ser Cys Lys Phe Pro Gly Asp Gln Cys Pro Leu Val Ile Gly Leu
 20 25 30

Cys His His Asn Phe His Asp His Cys Ile Tyr Arg Trp Leu Asp Thr
 35 40 45

Pro Thr Ser Lys Gly Leu Cys Pro Met Cys Arg Gln Thr Phe Gln Leu
 50 55 60

Gln Lys Gly Leu Ala
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<210> 10

<211> 13

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: von
 Hippel-Lindau (VHL) tumor suppressor complex
 tryptic peptide

<400> 10

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<211> 14

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence: von
 Hippel-Lindau (VHL) tumor suppressor complex
 tryptic peptide

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Gln Val Cys Pro Leu Asp Asn Arg Glu Trp Glu Phe Gln Lys
 1 5 10

<210> 12

<211> 6

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence: von
 Hippel-Lindau (VHL) tumor suppressor complex
 tryptic peptide

<400> 12

Trp Asn Ala Val Ala Leu
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